



## Comprehensive Infrastructure Agreement Amendment Approval Form

### Contract Between:

**Northrop Grumman Information Technology, Inc.**  
7575 Colshire Drive  
McLean, Virginia 22109-7508

and

**The Commonwealth of Virginia**  
110 South Seventh Street  
Richmond, Virginia, 23219

<b>Contract Number</b>	<b>VA-051114-NG</b>
<b>Change Control Number</b>	<b>29</b>
<b>Section(s) of CIA Referenced</b> – Identify section(s) of CIA modified, including Attachments and Schedules	Schedule 3.11 Technology Refresh Plan  Schedule 3.3 Appendix 7 Mainframe & Server, Addendum 6 Statement of Technical Approach  Schedule 3.3 Appendix 8 Data Network Svcs SOW, Addendum 7 Statement of Technical Approach
<b>Description of Approved Contract Change</b> – Provide a brief description of contract change	Removal of mandated refresh cycles for servers, network routers and switches, and the Unisys mainframe from Technology Refresh Plan and the Statements of Technical Approach for Data Network Services and Mainframe Server.



**In accordance with Section 27.5 Amendments, and pursuant to the mutual agreement of the parties, this AGREEMENT is modified as follows:**

**Schedule 3.11 of the Agreement is hereby modified as follows:**

### **Technology Refresh Plan**

This is Schedule 3.11 (Technology Refresh Plan) to the Comprehensive Infrastructure Agreement between the Commonwealth and Vendor (the "Agreement").

Vendor's Technology Refresh Plan for the various types of equipment Vendor plans to refresh is summarized below and further described in the appropriate Addendum to Schedule 3.3.

Desktop PC's

- 47,000 within the first three years of the Agreement

Laptop PC's

- 10,000 within the first three years of the Agreement

\*\*Management agents shall be loaded during the first three years of the Agreement on the existing approximately 8,000 desktops and 2,000 laptops procured since June 2004

After the initial refresh, desktops, laptops and tablets will be refreshed on the VITA requested ongoing schedule of 30% of systems on a 4 year schedule, 60% on a 5 year schedule, and 10% on an as needed basis.

Network Printers will be consolidated and refreshed throughout the Agreement.

- Standard size monochrome laser printers will be refreshed at an average of 360 per year
- Medium size monochrome laser printers will be refreshed at an average of 370 per year
- Large size monochrome laser printers will be refreshed at an average of 435 per year
- Color laser printers will be refreshed at an average of 70 per year
- Standard multifunction devices will be refreshed at an average of 15 per year
- Large multifunction devices will be refreshed at an average of 5 per year

PDA's – Option to refresh every three (3) years; choice of user whether to exercise the option

Servers – Unix – After the initial refresh, Servers will be refreshed, during the Term of the Agreement, as required to meet Service Levels set forth in the applicable Statement of Work

Servers – "Wintel," Linux, Netware, VMS, VMWare, Other – After the initial refresh, Servers will be refreshed, during the Term of the Agreement, as required to meet Service Levels set forth in the applicable Statement of Work.

Mainframes – After the initial refresh, the Unisys mainframe will be refreshed, during the Term of the Agreement, as required to meet Service Levels set forth in the applicable Statement of Work. The IBM mainframe will be refreshed with newer technology systems in year 8.

Mainframe DMX-1000 storage system will be refreshed in year 10

3Par distributed storage system - will be refreshed in year 8.

Mainframe Printers – Replace when required

Routers and switches – After the initial refresh, routers and switches will be refreshed, during the Term of the Agreement, as required to meet the Service Levels set forth in the applicable Statement of Work.

Telephone Centrex PSTN phones - implementation of VoIP call managers and phones in year 5, refresh of VoIP call managers in year 10

In addition to the refresh schedules set forth above, Vendor shall replace equipment items where replacement is required to maintain the equipment in an operational status.



ADDENDUM 6 TO APPENDIX 7 TO SCHEDULE 3.3 TO THE  
COMPREHENSIVE INFRASTRUCTURE AGREEMENT

MAINFRAME SERVICES, STATEMENT OF TECHNICAL APPROACH, TECHNOLOGY REFRESH SECTION

### ***Technology Refresh***

Northrop Grumman's technology refresh plan is driven by the age of the servers, as defined by the VITA during due diligence. Northrop Grumman intends to replace older servers first, reuse any servers that are still within the Vendor's current product lifecycle, and then perform partial or complete technology refreshment on remaining server assets.

The initial server refresh on the Intel platforms will occur during the transition period while the server consolidation project is in process. After the initial refresh, refresh will occur, during the Term of the Agreement, as required to meet Service Levels set forth in the applicable Statement of Work. Not every server, however, can be refreshed, due to application-specific logic that may require it to run on an existing platform until specific application changes are made.

Two new mainframes will be installed in the CESC during transition. After the initial refresh, the Unisys mainframe will be refreshed, during the Term of the Agreement, as required to meet Service Levels set forth in the applicable Statement of Work. The IBM mainframe will be refreshed with newer technology systems in year 8.

***Standard Images***—While VITA uses standard images within selected agencies to improve efficiency today, extending this policy across the enterprise with a standard image will further increase benefits by leveraging economies of scale. To accomplish this, Northrop Grumman will build a set of standard hardware and operating system configurations. These will be provided to the application community during the application development and selection processes. Given the Commonwealth's existing investment in Microsoft technology, it makes economic sense to establish a standard set of core Microsoft Windows 2003 Server configurations, based on HP and Dell servers and blades using Intel processors. This provides a ready migration path for the many Microsoft Windows servers already in the environment, and allows controlling and managing investment through the use of standard configurations.

***Standard Platforms***—Standardization and refresh is of importance wherever a service is required that meets a continuing business need. Standardization of server platforms will aid server consolidation efforts.

ADDENDUM 7 TO APPENDIX 8 TO SCHEDULE 3.3 TO THE  
COMPREHENSIVE INFRASTRUCTURE AGREEMENT

**DATA NETWORK SERVICES, STATEMENT OF TECHNICAL APPROACH, TECHNOLOGY REFRESH SECTION**

***Technology Refresh***

After the initial refresh, routers and switches for the data network will be refreshed, during the Term of the Agreement, as required to meet the Service Levels set forth in the applicable Statement of Work.

**All terms, conditions and provisions of the original Agreement, remain unchanged except as specifically noted herein.**

**The parties have executed this Agreement on the dates indicated below.**

**Executed by:**

**The Commonwealth of Virginia**

By: \_\_\_\_\_

Name: Fred Duball

Title: SMO Director

Date: 3/14/2007

**Northrop Grumman Information Technologies, Inc.**

By: \_\_\_\_\_

Name: Julia Carrier Donley

Title: Contracts Director

Date: 3/14/07